8th Grade Science

Physics in Action 2

Push or Pull – Adding Vectors

Goals…

* **Recognize that a force is a push or a pull.**
* **Identify the forces acting on an object.**
* **Calibrate a force meter and apply force to objects.**
* **Compare amounts of acceleration.**
* **Understand and apply Newton’s 2nd Law of Motion**
* **Understand and apply the definition of the Newton as a unit of force.**
* **Understand weight as a special application of Newton’s 2nd Law**
* NEWTON’S 2nd LAW OF MOTION – The acceleration of an object is Click here to enter text. to the unbalanced force acting on it and is Click here to enter text. to the object’s Click here to enter text.. The direction of the acceleration is the Click here to enter text. as the direction of the unbalanced force.
* 1 N = an unbalanced force that will cause Click here to enter text. of mass to accelerate Click here to enter text.
* F = ma, a = F/m, m = F/a
* WEIGHT – the vertical Click here to enter text. force exerted on a mass as a result of Click here to enter text.
* Acceleration due to gravity is roughly Click here to enter text.
* w = mg (Click here to enter text.xClick here to enter text.)
* This is acceleration due to gravity
* VECTOR – has both a Click here to enter text. and a Click here to enter text.